

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Figure 1

$\frac{1}{2} \sum_{i,j} \langle \mathbf{r}_i | \mathbf{r}_j \rangle \langle \mathbf{r}_j | \mathbf{r}_i \rangle$ is the trace of the product of the two matrices \mathbf{r}_i and \mathbf{r}_j .

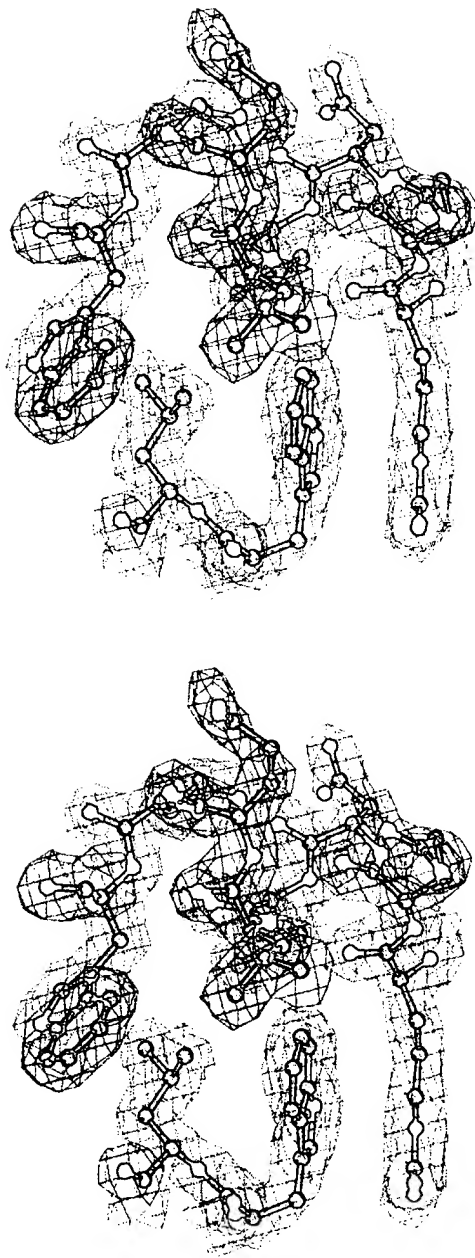


Figure 2

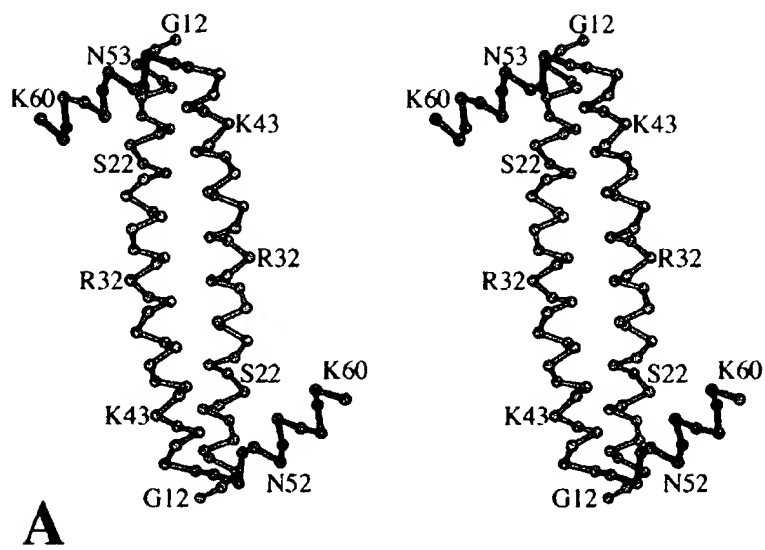


Figure 3A

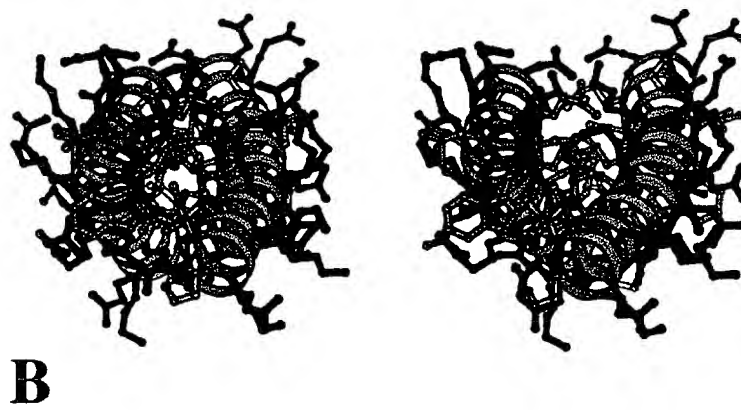


Figure 3B

12

48

gabcdefgabcdefgabcdefgabcdefgabcdefga
GRED**I**LEQWVSGRKKLEELERD**L**RKLKK**I**KKLEEDN
NDEELKK**I**KKKKLKR**L**DRELEELKKRG**S**VWQELIDERG
agfedcbagfedcbagfedcbagfedcbagfedcbag

48

12

Figure 3C

THESE DATA WERE OBTAINED FROM A STUDY OF THE EFFECTS OF THE
HUMAN FACTOR ON THE DESIGN OF THE HUMAN-MACHINE INTERFACE

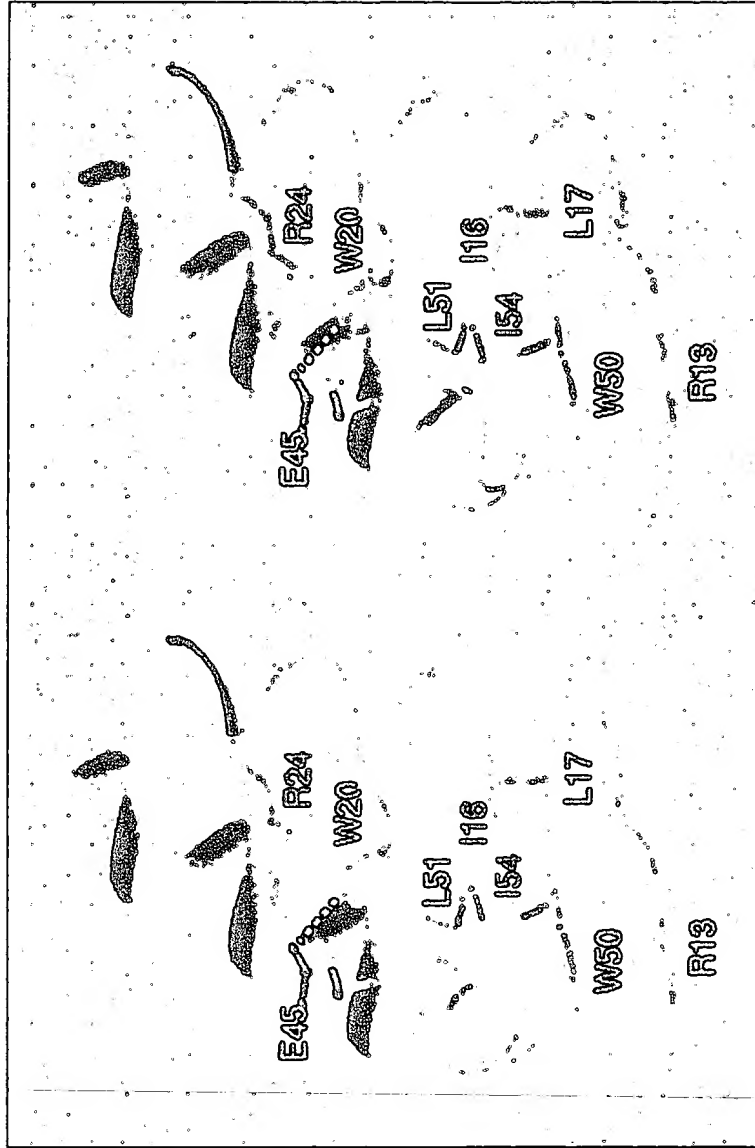


Figure 4

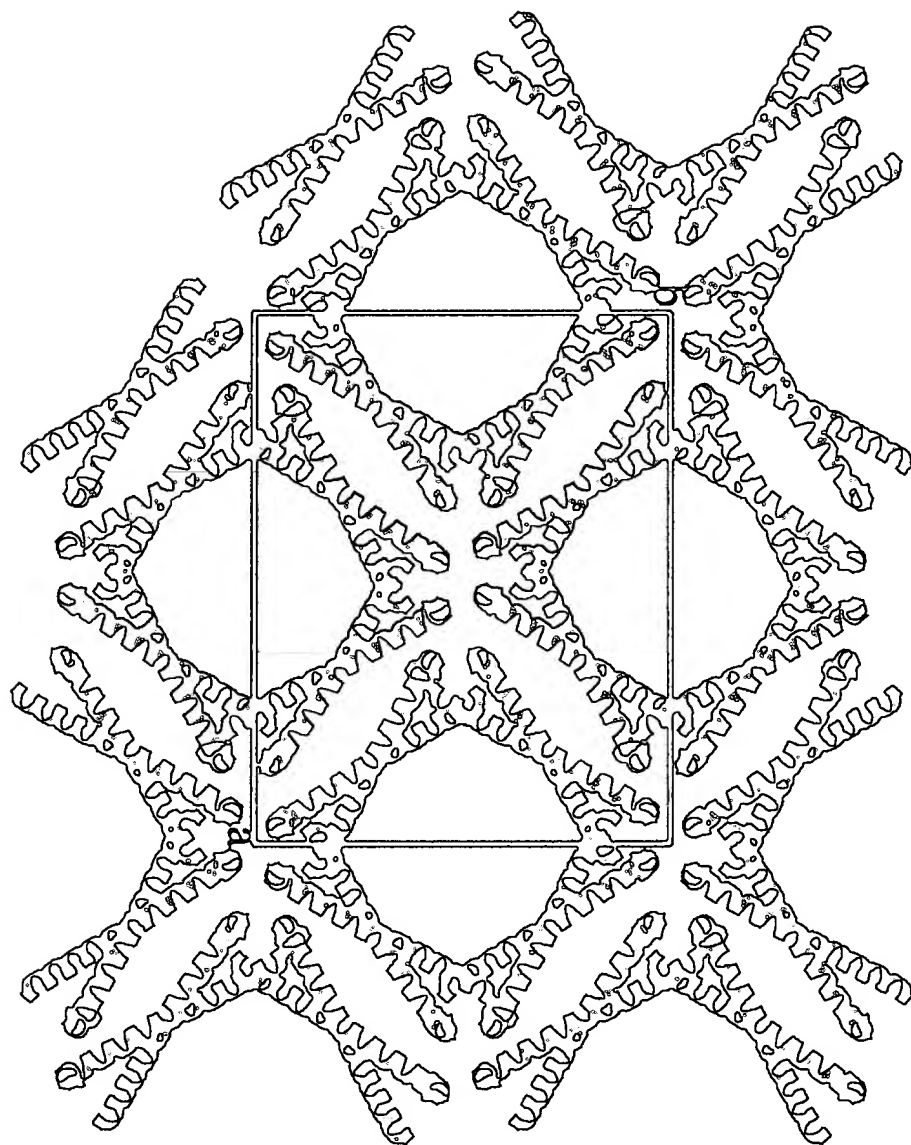


Figure 5

| Variable | Mean | SD | Min | Max | Skewness | Kurtosis | Normality |
|---------------------------|-------|------|------|-------|----------|----------|-----------|
| Age | 35.2 | 12.5 | 18 | 65 | 0.15 | 3.2 | 0.98 |
| Gender | 0.55 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Marital Status | 0.70 | 0.46 | 0 | 1 | 0.10 | 3.1 | 0.99 |
| Education | 12.5 | 2.5 | 8 | 16 | -0.20 | 3.3 | 0.97 |
| Income | 15000 | 8000 | 5000 | 30000 | 0.30 | 3.4 | 0.96 |
| Health | 0.85 | 0.35 | 0 | 1 | -0.10 | 3.0 | 0.99 |
| Stress | 0.60 | 0.40 | 0 | 1 | 0.05 | 3.1 | 0.98 |
| Depression | 0.45 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Life Satisfaction | 0.75 | 0.40 | 0 | 1 | -0.10 | 3.0 | 0.99 |
| Resilience | 0.65 | 0.45 | 0 | 1 | 0.00 | 3.1 | 0.99 |
| Optimism | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Self-Esteem | 0.80 | 0.40 | 0 | 1 | -0.10 | 3.0 | 0.99 |
| Loneliness | 0.30 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Social Support | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Work-Life Balance | 0.55 | 0.50 | 0 | 1 | 0.00 | 3.1 | 0.99 |
| Job Satisfaction | 0.60 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Organizational Commitment | 0.65 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Turnover Intent | 0.20 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Job Engagement | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Workload | 0.80 | 0.40 | 0 | 1 | 0.00 | 3.1 | 0.99 |
| Job Autonomy | 0.60 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Supervisor Support | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Team Cohesion | 0.75 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Organizational Culture | 0.80 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Leadership Style | 0.65 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Employee Empowerment | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Job Design | 0.60 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Work Environment | 0.75 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Job Security | 0.85 | 0.35 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Compensation | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Benefits | 0.80 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Work-Life Balance | 0.55 | 0.50 | 0 | 1 | 0.00 | 3.1 | 0.99 |
| Job Satisfaction | 0.60 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Organizational Commitment | 0.65 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Turnover Intent | 0.20 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Job Engagement | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Workload | 0.80 | 0.40 | 0 | 1 | 0.00 | 3.1 | 0.99 |
| Job Autonomy | 0.60 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Supervisor Support | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Team Cohesion | 0.75 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Organizational Culture | 0.80 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Leadership Style | 0.65 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Employee Empowerment | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Job Design | 0.60 | 0.50 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Work Environment | 0.75 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Job Security | 0.85 | 0.35 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Compensation | 0.70 | 0.45 | 0 | 1 | -0.05 | 3.0 | 0.99 |
| Benefits | 0.80 | 0.40 | 0 | 1 | -0.05 | 3.0 | 0.99 |

Figure 6A

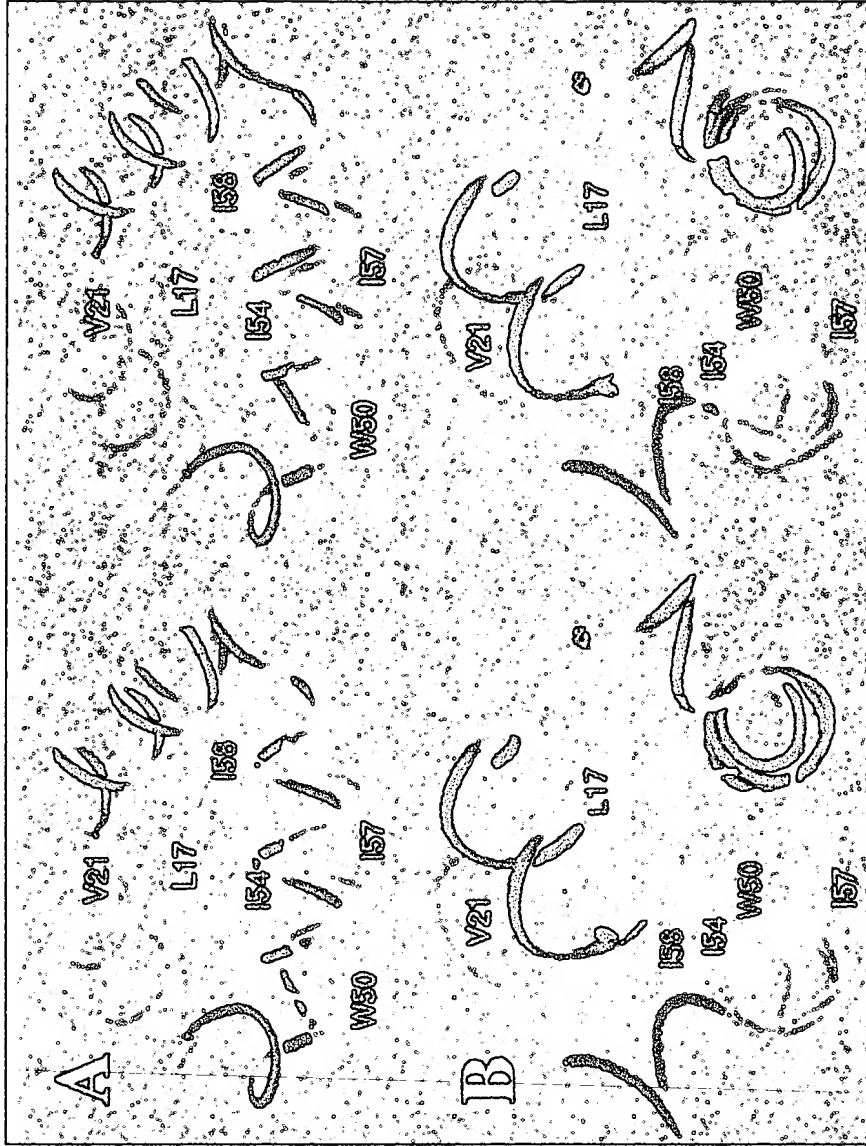


Figure 6B

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

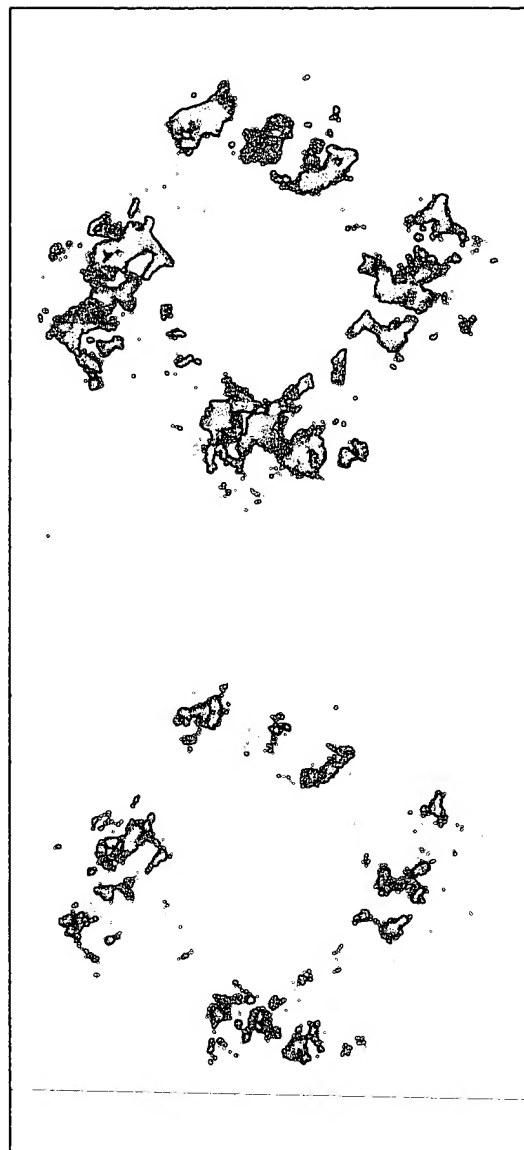


Figure 7A

Figure 7B

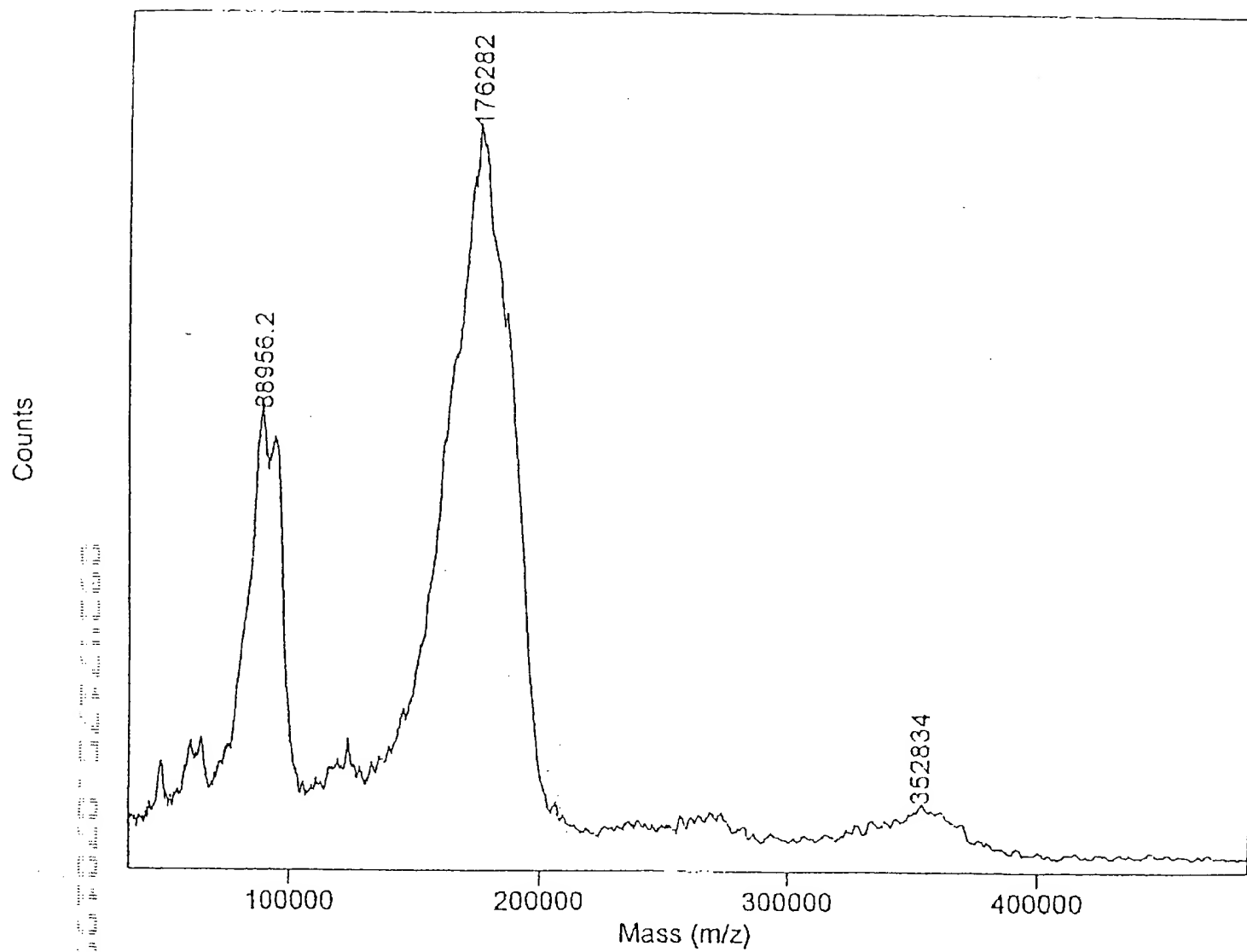


FIGURE 8B

NdeI

M S R S E R R K D R G / G R E D I L E
GGGCATATGAGCCGTAGCGAAGCTCGTAAAGATCGTGGAGGCCGTGAAGATATTCTGGAA
CCCGTATACTCGGCATCGCTTGCAGCATTCTTAGCACCGCCGGCACTTCTATAAGACCTT

Q W V S G R K K L E E L E R D L R K L K
CAGTGGGTGAGCGGCGGTAAAGAAGTTAGAGGAATTGGAACGTGATCTGCGTAAACTGAAA
GTCACCCACTCGCCGGCATTCTTCAATCTCCTTAACCTTGCACTAGACGCATTGACTTT

K K I K K L E E D N P W L G N I K G I I
AAGAAGATTAAAGAACTGGAAGAAGATAACCCGTGGTTGGGTAATATTAAAGGCATTATT
TCTTCTAATTCTTTGACCTTCTTCTATTGGGCACCAACCCATTATATTTCCGTAAATA

G K K D K D G E G A P P A K K L R M D Q
GGCAAGAAAGATAAAGATGGCGAAGGCGCGCCCGCGCGGAAGAACTGCGTATGGATCAG
CCGTCTTTCTATTCTTACCGCTTCCGCGCGCGCGCGCTTCTTTGACGCATACCTAGTC

M E I D A G P R K R P L R G G F T D K E
ATGGAATTTGATCGGGCCCGCGTAAACGTCCGCTGCGTGGCGGCTTTACCGATAAGGAA
TACCTTTAATACGCCCCGGCGCATTTCAGGCGACGCACCGCCGAAATGGCTATTCTCTT

R Q D H R R R K A L E N K R K Q L S S G
CGTCAGGACCATCGTCTCGTAAAGCGCTGGAAAACAAACGTAAACAGCTGAGCAGCGGC
GCAGTCTCTGTAGCAGCAGCATTTCGCGACCTTTTGTTTGCATTGTGCGACTCGTCGCCG

G K S L S R E E E E L K R L T E E D E
GGCAAATCTCTGAGCCGTGAAGAAGAAGAAGAACTGAAACGTCTGACCGAAGAAGATGAA
CCGTTTAGAGACTCGGCCTTCTTCTTCTTCTTGACTTTGCAGACTGGCTTCTCTACTT

K R E R R I A G P S V G G V N P L E G G
AAACGTGAACGTCTGATTGTCAGGTCCATCTGTTGGTGGTGTGAACCCGCTGGGAAGCGGC
TTTGCACTTGCAGCATAACGTCCAGGTAGACAACACCACACTTGGGCGACCTTCCGCCG

S R G A P G G G F V P S M Q G V P E S P
AGCCGTGGTGCACCGGGCGGTGGCTTTGTGCGCTCTATGCAAGGTGTTCCAGAAAGCCCG
TCGGCACACGTGCCCCCACCAGAAACACGGCAGATACGTTCCACAAGGTCTTTCCGGG

F A R T G E G L D I R G S Q G F P *NcoI*
TTTGCGCGTACCGGCGAAGGCCTGGATATTCGTGGCAGCCAGGGCTTTCCGTAAACCATGGCGC
AAACGGCGCATGGCGCTTCCGGACCTATAAGCACCGTCCGTCCCGAAAGGCATTGTTACCGCG

Figure 9

[illegible]

Figure 10

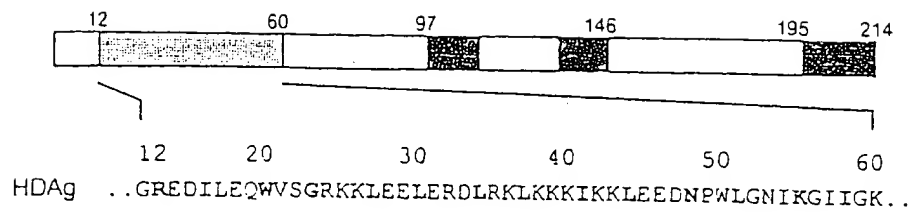


Figure 11A

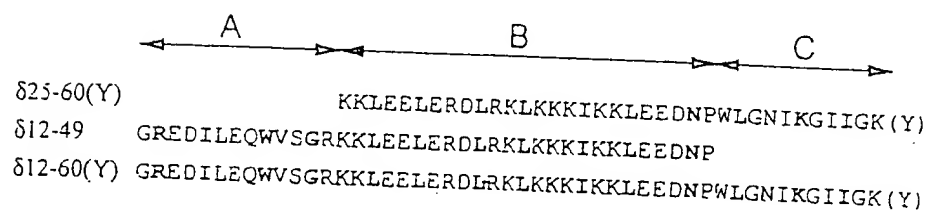


Figure 11B

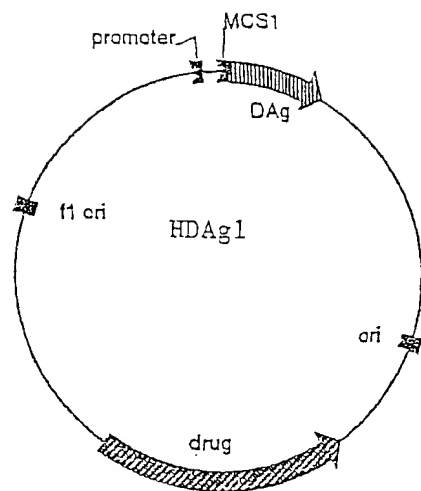


Figure 13a

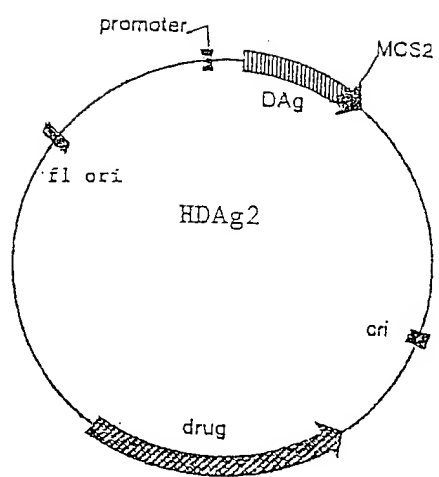


Figure 13b

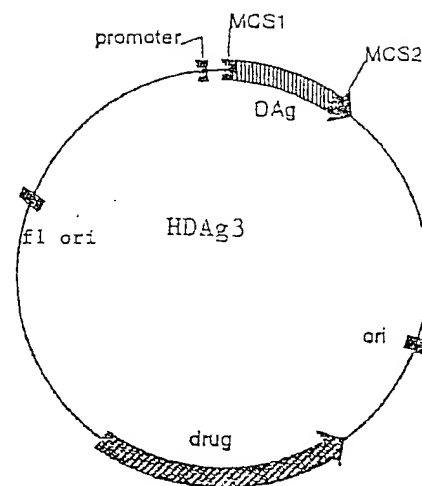


Figure 13c

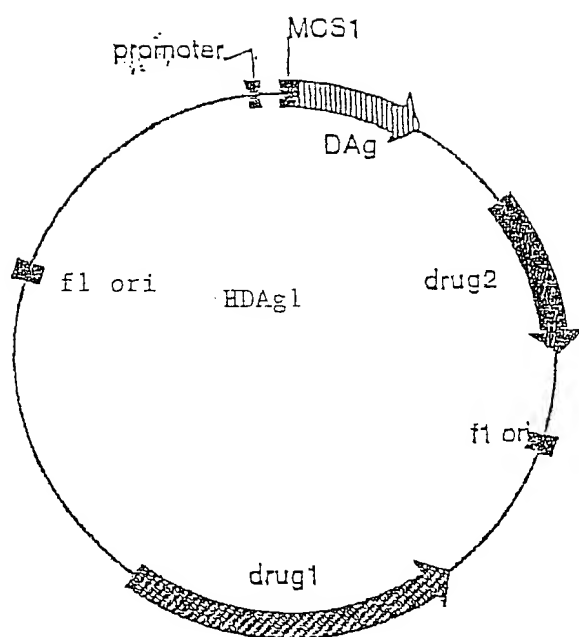


Figure 14

| | | |
|---------------|---|-----|
| synthetic ORF | 1 | 50 |
| wildtype ORF | ATGAGCCGta gCGAAcGtcG tAAAGAtCGt GGcGGccGtG AAGAtAtTtCT | |
| Identity | ATGAGCCGgt cCGAAaGaaG gAAAGAcCGc GGgGGGaGgG AAGAcATcCT | |
| | ATGAGCCG-- -CGAA-G--G -AAAGA-CG- GG-GG--G-G AAGA-AT-CT | |
| synthetic ORF | 51 | 100 |
| wildtype ORF | gGAaCAGTGG GTGAGCGGcc GtAAGAAGTT AGAGGAAtTg GAacGtGAtC | |
| Identity | cGAgCAGTGG GTGAGCGGaa GaaAGAAGTT AGAGGAAtTc GAgAGaGAcC | |
| | -GA-CAGTGG GTGAGCGG-- G-AAGAAGTT AGAGGA-T- GA--G-GA-C | |
| synthetic ORF | 101 | 155 |
| wildtype ORF | TgCGtAAacT gAAaAAGAAg ATtAAGAAAC TgGAaGAAGA tAAcCCgTGG | |
| Identity | TcCGgAAgtT aAagAAGAAa ATcAAGAAAC TaGAgCAAGA cAAtCCcTGG | |
| | T-CG-AA--T -AA-AAGAA- AT-AAGAAAC T-GA-GAAGA -AA-CC-TGG | |
| synthetic ORF | 151 | 205 |
| wildtype ORF | tTGGGtAAtA TtAAAGGcAT tATtGGcAAG AAaGATAAaG ATGGcGAaGG | |
| Identity | cTGGGaaAaCa TcAAAGGaAT aATcGGaAAG AAgGATAaG ATGGaGAgGG | |
| | -TGGG-AA-A T-AAAGG-AT -AT-GG-AAG AA-GATAA-G ATGG-GA-GG | |
| synthetic ORF | 201 | 255 |
| wildtype ORF | cGCgCCgCCG GCGAAGAAaC TgCGtATGGA tCAGATGGaa ATtGAtGCgG | |
| Identity | gGCaCCcCCG GCGAAGAAgC TcCGgATGGA cCAGATGGAg ATaGAcGCcG | |
| | -GC-CC-CCG GCGAAGAA-C T-CG-ATGGA -CAGATGGA- AT-GA-GC-G | |
| synthetic ORF | 251 | 305 |
| wildtype ORF | GcCCGcGtAA acGtCCgCTg cGtGGcGGcT TtACCGAtAA GGAacGtCAG | |
| Identity | GaCCtaGgAA gaGgCtTcTc aGgGGaGgAT TcACCGAcAA GGAGaGgCAG | |
| | G-CC--G-AA --G-CC-CT- -G-GG-GG-T T-ACCGA-AA GGA--G-CAG | |
| synthetic ORF | 301 | 355 |
| wildtype ORF | GAcCAtCGtC GtcGtAAaGC gCTgGAaAAC AAacGtAAaC AGCTgagcag | |
| Identity | GAtCAcCGaC GaaGgAAGGC cCTcGAgAAC AAgAGgAAGC AGCTatcgtc | |
| | GA-CA-CG-C G--G-AA-GC -CT-GA-AAC AA--G-AA-C AGCT----- | |
| synthetic ORF | 351 | 405 |
| wildtype ORF | cGGcGGcAAa tctCTgAGCc GtGAaGAaGA AGaAGAACTg AAacGtCTGA | |
| Identity | gGGgGGaAAG agcCTcAGCa GgGAgGAgGA AGAgGAACTt AAgAGgtTGA | |
| | -GG-GG-AA- ---CT-AGC- G-GA-GA-GA AGA-GAACT- AA--G--TGA | |
| synthetic ORF | 401 | 455 |
| wildtype ORF | CCGAaGAAGA tGAaAAAcGt GAacGtcGtA TtGCaGGtCC aTctGTTGGt | |
| Identity | CCGAgGAAGA cGAgAAaAGg GAAaGaaGaA TaGCCGGcCC gTCgGTTGGg | |
| | CCGA-GAAGA -GA-AAA-G- GAA-G--G-A T-GC-GG-CC -TC-GTTGG- | |
| synthetic ORF | 451 | 505 |
| wildtype ORF | GGTGTGAACC CgCTgGAAGG cGGcagccGt GGtGCaCCgG GcGGtGGCTT | |
| Identity | GGTGTGAACC CcCTcGAAGG tGGatcgaGg GgAGCgCCcG GgGGcGGCTT | |
| | GGTGTGAACC C-CT-GAAGG -GG-----G- GG-GC-CC-G G-GG-GGCTT | |
| synthetic ORF | 501 | 555 |
| wildtype ORF | tGTgCCgtct ATGCAAGGtG TtCCaGAaag CCCgTTtGCG CGtACCGGcG | |
| Identity | cGTcCCcagc ATGCAAGGaG TcCCgGAgtc CCCcTtCGct CGgACCGGgG | |
| | -GT-CC---- ATGCAAGG-G T-CC-GA--- CCC-TT-GC- CG-ACCGG-G | |
| synthetic ORF | 551 | 603 |
| wildtype ORF | AaGGcCTGGA tATtCtGGGc AGCCAGGGcT TtCCgTaaac cATggcgc | |
| Identity | AgGGaCTGGA cATaaGgGGA AGCCAGGGaT TcCCaTggga tATactct | |
| | A-GG-CTGGA -AT--G-GG- AGCCAGGG-T T-CC-T---- -AT----- | |

Figure 15

1 GGGCATATGA GCCGTAGCGA ACGTCGTAAA GATCGTGGCG GCCGTGAAGA
51 TATTCTGGAA CAGTGGGTGA GCGGCCGTAA GAAGTTAGAG GAATTGGAAC
101 GTGATCTGCG TAAACTGAAA AAGAAGATTA AGAACTGGA AGAAGATAAC
151 CCGTGGTTGG GTAATATTAA AGGCATTATT GGCAAGAAAG ATAAAGATGG
201 CGAAGGCGCG CCGCCGGCGA AGAACTGCG TATGGATCAG ATGGAAATTG
251 ATGCGGGCCC GCGTAAACGT CCGCTGCGTG GCGGCTTTAC CGATAAGGAA
301 CGTCAGGACC ATCGTCGTCG TAAAGCGCTG GAAAACAAAC GTAAACAGCT
351 GAGCAGCGGC GGCAAATCTC TGAGCCGTGA AGAAGAAGAA GAACTGAAAC
401 GTCTGACCGA AGAAGATGAA AAACGTGAAC GTCGTATTGC AGGTCCATCT
451 GTTGGTGGTG TGAACCCGCT GGAAGGCGGC AGCCGTGGTG CACCGGGCGG
501 TGGCTTTGTG CCGTCTATGC AAGGTGTTCC AGAAAGCCCG TTTGCGCGTA
551 CCGGCGAAGG CCTGGATATT CGTGGCAGCC AGGGCTTTCC GTAAACCATG
601 GCGC

Figure 16

| | | | |
|-----------------|--|--|-----|
| | 1 | | 48 |
| wildtype HDag-S | MSRSERRK DRGGREDILE QVSGRKKLE ELERDLRKLK KIKKKLEEDN | | |
| pR5DV5 plasmid | MSRSERRK DRGGREDILE QVSGRKKLE ELERDLRKLK KIKKKLEEDN | | |
| Identity | MSRSERRK DRGGREDILE QVSGRKKLE ELERDLRKLK KIKKKLEEDN | | |
| | 49 | | 98 |
| wildtype HDag-S | PWLGNIKGII GKDKDGEA PPAKKLRMDQ MEIDAGPRKR PLRGGFTDKE | | |
| pR5DV5 plasmid | PWLGNIKGII GKDKDGEA PPAKKLRMDQ MEIDAGPRKR PLRGGFTDKE | | |
| Identity | PWLGNIKGII GKDKDGEA PPAKKLRMDQ MEIDAGPRKR PLRGGFTDKE | | |
| | 99 | | 148 |
| wildtype HDag-S | RQDHRRRKAL ENKRKQLSSG GKSLSRREEE ELKRLTEEDE KRERRIAGPS | | |
| pR5DV5 plasmid | RQDHRRRKAL ENKRKQLSSG GKSLSRREEE ELKRLTEEDE KRERRIAGPS | | |
| Identity | RQDHRRRKAL ENKRKQLSSG GKSLSRREEE ELKRLTEEDE KRERRIAGPS | | |
| | 149 | | 195 |
| wildtype HDag-S | VGGVNPLEG SRGAPGGGFV PSMQGVPEP FARTGEGLDI RGSQGF | | |
| pR5DV5 plasmid | VGGVNPLEG SRGAPGGGFV PSMQGVPEP FARTGEGLDI RGSQGF | | |
| Identity | VGGVNPLEG SRGAPGGGFV PSMQGVPEP FARTGEGLDI RGSQGF | | |

Figure 17

primer1

GGGCATATGAGCCGTAGCGAACGTGTAAGATCGTGGCGGCCGTGAAGATA
TTCTGGAACAGTGGGTGAGCGGCCGTAAGAAGTTAGAGGAA

primer2

ATATTACCCAACCACGGGTATCTTCTTCCAGTTTCTTAATCTTCTTTT
CAGTTTACGCAGATCACGTTCCAATTCTCTAACTTCTTACGGCC

primer3

TAACCCGTGGTTGGGTAAATATTAAAGGCATTATTGGCAAGAAAGATAAAG
ATGGCGAAGGCGCGCCGCCGCGGAAGAACTGCGTATGGATCAG

primer4

GATGGTCCTGACGTTCTTATCGGTAAAGCCGCCACGCAGCGGACGTTTA
CGCGGGCCCCGCATCAATTTCCATCTGATCCATACGCAGTTTCTT

primer5

ATAAGGAACGTCAGGACCATCGTCGTCGTAAAGCGCTGGAAAACAAACGT
AAACAGCTGAGCAGCGGCGGCAAATCTCTGAGCCGTGAAGAAG

primer6

CAACAGATGGACCTGCAATACGACGTTTACGTTTTTCATCTTCTTCGGTC
AGACGTTTCAGTTCTTCTTCTTCTTACGGCTCAGAGAT

primer7

TATTGCAGGTCCATCTGTTGGTGGTGTGAACCCGCTGGAAGGCGGCAGCC
GTGGCGCGCCGGGCGGCGGCTTTGTGCCGTCTATGCAAGGTGTTCCAGAA
A

primer8

GCGCCATGGTTTACGGAAAGCCCTGGCTGCCACGAATATCCAGGCCTTCG
CCGGTACGCGCAAACGGGCTTTCTGGAACACCTTGCATAG

primer9

GGGCATATGAGCCGTAGCGA

primer10

GCGCCATGGTTTACGGAAAG

Figure 18